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Note from the Editor

In the midst of fast-evolving information age, print medium now requires more precise adaptations, than ever in the past, to quench the news thirst of the modern readers. A good publication is the one that keeps the interest of its readers alive. Considering the convenience of readers who are generally pressed for time, we have introduced a few changes in NUSTNews with the advent of the New Year. Though the newsletter, having matured into a monthly publication after starting as a quarterly back in 2010, has gradually incorporated some alterations in content and design, this latest edition presents a look that is more visually pleasing with the written content trimmed to size.

With the increase of space for photographs, we intend adding more pages to give rather exclusive coverage to Nustians' diverse pursuits. In the

coming editions, inclusion of some new sections viz. news reviews and interviews of faculty, researchers and incubatees is also planned, so as to enable our readers have a deep insight into what makes NUST one of the leading universities of the world.

Change is a continuous process and we will keep making modifications and innovations following your invaluable feedback.

We owe special thanks to the Rector NUST for his kind patronage and encouragement; Director Student Affairs for his ready advice and guidance; and particularly our Creative Unit in making NUSTNews a quality publication.

Our pledge is to keep you informed.

Faheem Khaliqdad

NUSTNews is a monthly publication, produced by Student Affairs Directorate, covering various events across the entire University. It will be appreciated if the focal persons send reports right after the events so as to give them timely coverage.



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01 / Event Highlights

NIMUN 2014 concludes on a high note



This year's NUST International Model United Nations (NIMUN '14) concluded on a high note with the delegates and chairs expressing great satisfaction over the outcome of the debates. The committees passed draft resolutions and the delegates attended a Masters Round – where the highly experienced chairs debated and deliberated upon various crises the world encountered. This gave the delegates an opportunity to understand and learn from the best in the debating field, and value the debate from a different perspective.

The four-day grand event, Jan 22-25, included international chairs from Germany, who arrived at NUST to moderate and lead the committee sessions. Also attending were the forty international delegates from Kenya, Vietnam, Nepal, Jordan, Saudi Arabia, Syria, Egypt, Lebanon, Afghanistan and over 500 delegates from different colleges and universities of Pakistan. The opening ceremony, held at Centre for International Peace and Stability, was graced by Riaz Khokhar, an eminent Pakistani diplomat, as the chief guest. He acknowledged and lauded the idea of NIMUN '14.

Rector NUST Engineer Mohammad Asghar also praised the efforts of the organizing committees as well as wel-

comed the local and the foreign guests. He said that the inclusion of international chairs and delegates had rendered new life and energy to NIMUN which, he assured, would continue to expand and grow. Ahmed Salman, Secretary General NIMUN '14, talked about how the conference had been nurtured by the MUN family to this point of beginning.

The NIMUN team set up a global village, where delegates and participating teams were given the opportunity to exhibit their assigned country's culture in colourful, artistic and vibrant ways. The delegates were extremely enthusiastic and





brought forward a diverse flavour to the entire extravaganza.

Naela Chauhan, Additional Secretary Ministry of Foreign affairs also attended the event. She highlighted the global power issue that the entire world faced. She also talked about the urgency for disarmament, multiple facets of Millennium

Development Goals, penetration of lethal diseases across the globe, and significance of the platforms like NIMUN in understanding the youth. After a strenuous day of deliberating, competing and debating –NIMUN '14 had another social event in the evening - LOK JOMELO, a grand carnival which paid homage

to Pakistan's cultural heritage.

During the entire event, the rationally exuberant debaters kept the audience spellbound with their thought-provoking views. While addressing the Counter Terrorism Committee, Dr. Shahid Masood, a renowned journalist said that the monster of terrorism had sent a wave of insecurity rippling across the length and breadth of the world. His message was to enhance collaborative efforts in uprooting the widespread plague.

Closing ceremony was held later that day in CIPS which was attended by UN Resident Co coordinator, Timo Pakkala. He appreciated the efforts of the students and termed the initiative an excellent effort to simulate the real United Nations. The best delegate awards were given to the most outstanding del-





egates by their respective Committee Chairs. The event ended with the mystical and spiritual Sufi night, featuring performances by Sae'en Zahoor and Arieab Azhar.



SEECs Convocation

Graduates earn reward for strenuous work



Around 700 graduating students of SEECs received degrees in the disciplines of Electrical Engineering, Information and Communication Systems Engineering and Information Technology at the 6th Undergraduate Convocation of the School. Held at the main campus of the University on January 24, the ceremony was attended by the parents of the graduating students, faculty, and other distinguished guests. Dr. Akram Sheikh, Professor Emeritus, Co-Chair NUST Corporate Advisory Council, and Osman Khan, Country Manager, EMC Information Systems Pakistan (Pvt) Ltd. Karachi graced the morning and afternoon sessions respectively as chief guests.

Tehniat Fatima, Haris Aftab and Muhammad Wajeeh from BIT-10 won President's Gold Medal, Chancellor's Silver Medal and Rector's Gold Medal respectively. From BICSE-6, Erum Mushtaq, Sikandar Ali Khan and Munawar Masood Khan claimed the

President's Gold Medal, Chancellor's Silver Medal and Rector's Gold Medal, respectively. Muhammad Junaid Farooq, Jawad Ahmed and Umair Aftab from BEE-1 got President's Gold Medal, Chancellor's Silver Medal and Rector's Gold Medal respectively.

Muhammad Nawaz, Asim Mushtaq and Syeda Zahra Hassan from BIT-11 won President's Gold Medal, Chancellor's Silver Medal and Rector's Gold Medal respectively. Intikhab Hussain, Junaid-Zulfiqar and Maryam Rehman from BICSE-7 received the President's Gold Medal, Chancellor's Silver Medal and Rector's Gold Medal respectively. From BEE-5, Saleha Asad and Waleed Aslam claimed President's Gold Medal and Chancellor's Silver Medal respectively and Burhan Ahmad Mudassar claimed both Rector's Gold Medal and Chancellor's Silver Medal.

At this auspicious occasion, Dr Awais Shibli was awarded with the best researcher award and Dr Osman Hassan

was awarded with best teacher award for their outstanding performance and contribution in research and teaching, respectively, in year 2013.

In his address, Rector NUST, Engineer Muhammad Asghar congratulated students and their proud parents. He also complimented Principal SEECs Dr. Arshad Ali and his dedicated team of faculty and staff officers on making SEECs a center of excellence for quality education and research.

Earlier, Dr. Arshad Ali presented a brief report on the performance of SEECs. In their keynote addresses, the chief guests, Engr. Dr. M. Akram Sheikh, Professor Emeritus, Co-Chair NUST Corporate Advisory Council, and Mr. Osman Khan, Country Manager, EMC Information Systems Pakistan (Pvt) Ltd. Karachi, complimented NUST on its progressive vision and hard work to promote research and innovation in the country.



Telecom, software engineers conferred degrees at MCS convocation

The 22nd Undergraduate Convocation of Military College of Signals (MCS) was held on 25th Jan 2014. Rector NUST Engineer Muhammad Asghar was the chief guest at the occasion. In his address, the Rector stressed upon the need for producing more trained scientists and technologists. He emphasized that the primary challenge was to transform our tertiary educational institutions into centres of excellence, with high standards of teaching and a culture of sustained learning. Ear-

lier, Commandant MCS, Brigadier Ali Farhan, presented the college report, highlighting the progress in academic and research excellence the College had achieved over the last six decades. A total of 195 students of Telecom and Software Engineering programs were conferred degrees of Bachelor of Engineering. President's Gold Medals were awarded to NUST Cadet Muhammad Ahsen and NUST Cadet Ruba Aslam. Chief of Army Staff's Gold Medals were received by Capt Abdul Rehman Raza

Khan and Gentleman Cadet Muhammad ul Husnain Nawaz. Rector's Gold Medals were awarded to Capt Khalid Rabbani and Capt Abdul Rehman Raza Khan for their outstanding performances in their respective degree projects. Chancellor's Silver Medals were received by NUST Cadet Muhammad Ali and NUST Cadet Zainab Abbas. Major General Waqar Ahmed, Signal Officer in Chief, faculty members, educationists and a large number of students were also present during the ceremony.



Rector NUST awarded Certificate of Appreciation

In recognition of the outstanding contributions of NUST in organizing World Engineering Congress-2013, the Rector NUST has been awarded the "Certificate of Appreciation" by the President Federation of Engineering Institutions of Islamic Countries (FEIIC) at the International Conference on Engineering Education (ICEE-2013) held at Madina, Saudi Arabia from 23-25 December 2013. On the Rector's behalf, General Secretary Institute of Engineers Pakistan Engr Mian Sultan Mahmood received the certificate.



Academic Council approves nine new programmes



The 40th Academic Council Meeting of NUST was held on 10 January at the main campus of the university. The meeting was chaired by Rector, Engr Muhammad Asghar, and attended by the Pro-Rectors / Principals / Commandants and Directors of the Main Office. The meeting focused on the need for introducing more multidisciplinary

programmes; upgradation and maintenance of the University's research facilities; emphasis on increasing NUST publications by faculty / students and other issues of core importance. Director Academics then presented 34 working papers in which all participants took active part.

The council approved 9 new programs

which will be launched with effect from Spring / Fall 2014, apart from restructuring of 6 existing programs, including 12 new courses and amendment in NUST statutes and policies. In the end, the Rector thanked all the participants for taking keen interest in the discussion, thereby making valuable contribution.

NUST hosts Wana students

NUST hosted a 95-member delegation from Musa Nikka Public School & College Wana on 28 & 29 Dec 2013. Upon their arrival, the delegation comprising teachers and students received a briefing on NUST and later was led to different institutions and other facilities being provided on-campus.

The NUST administration had also arranged a tour for visitors to some prominent places in the federal metropolis such as Lok Virsa, Pakistan Monument, Faisal Mosque and Daman-e-Koh. The visit ended with a traditional dinner at NUST followed by a presentation of souvenirs to the guests.



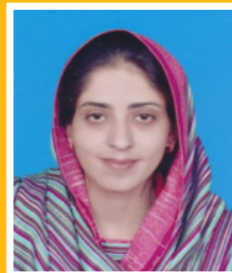
BoTs raises PhD, MS scholars' stipend

A meeting of Board of Trustees of ICT R&D Endowment Fund was held on 15th January 2014. The BoTs increased the stipend of full-time PhD students from Rupees 18,000 per month to Rupees 30,000 per month. Similarly the stipend of full-time MS students was also enhanced from Rupees 12,000 per month to Rupees 18,000 per month. Apart from increasing the stipend BoTs also approved sixteen more disciplines, which can be supported from this fund. Rector NUST has been empowered to include more disciplines that may be supported from this fund. It was also decided to allocate rupees two million for funding research projects having some commercialization value.



Distinction of a faculty

Dr. Noreen Sher Akbar, a faculty member of Department of Basic Sciences & Humanities College of



Electrical and Mechanical Engineering, has 155 publications in the ISI indexed journals of high repute. The total impact factor of her all publications is 160 with over 950 citations. It is a great achievement by Dr. Noreen considering she only completed her PhD in 2012. Dr Noreen is placed in category A of HEC's most productive scientists list.

PEEF, DFID to sponsor 62 UG students

In a bid to further the cooperation between NUST and PEEF, NUST Financial Aid Office (PGP Dte) arranged an MoU Signing Ceremony on 21st January 2014. PEEF and DFID have collectively agreed to sponsor the education of 62 NUST undergraduate students. Chief Executive Officer PEEF Mr Kamran Shams and Registrar NUST signed the MoU for award of 62 scholarships to NUST students from Punjab and belonging to the middle and lower middle socio-economic segments of the society.

Dr. Kamran Shams (CEO, PEEF) and Dr. Asif Raza (Pro-Rector Academics) in their addresses emphasized the need of such joint ventures to facilitate the needy and meritorious students. Later, Scholarship Award Certificates were distributed amongst the awardees."



Outstanding Research Award

The research paper of NUST Business School (NBS) faculty, Nadia Zaheer, titled "Critical Practices for Increasing Business Process Orientation: Case Study of 20 Companies" has been awarded Outstanding Research Award in the 15th Global Conference on Business and Research (GCBF), held in Hawaii USA, from January 4 to 6. The conference was sponsored by Institute for Business and Finance Research (IBFR) and had representation of 235 universities/institutes from 45 countries including USA, Canada and UK.



IN THE SPOTLIGHT

MoST approves Rs 36 M for PTCA balloon catheter manufacturing at NUST

NUST plans to establish the facility for the manufacturing of Percutaneous Transluminal Coronary Angioplasty (PTCA) balloon catheter. The use of balloon catheters for the angioplasty procedure has become common treatment at most of the cardiac centers in Pakistan. The cost of the imported balloon catheters is (Rs. 25,000-40,000) prohibitive. HoD Biomedical Engineering and Sciences SMME-NUST, Dr. Mur-

taza Najabat Ali has played a vital role in acquiring a grant of Rs 36 million for this project approved from Ministry of Science and Technology.

The PC-1 submitted for the establishment of "Facility for the Indigenous Development of Percutaneous Transluminal Coronary Angioplasty (PTCA) Balloon Catheters" will produce low cost PTCA balloon catheters, which will be used in both angioplasty procedures

and also for the inexpensive deployment/insertion of the indigenously developed cardiac stents developed by NESCOM.



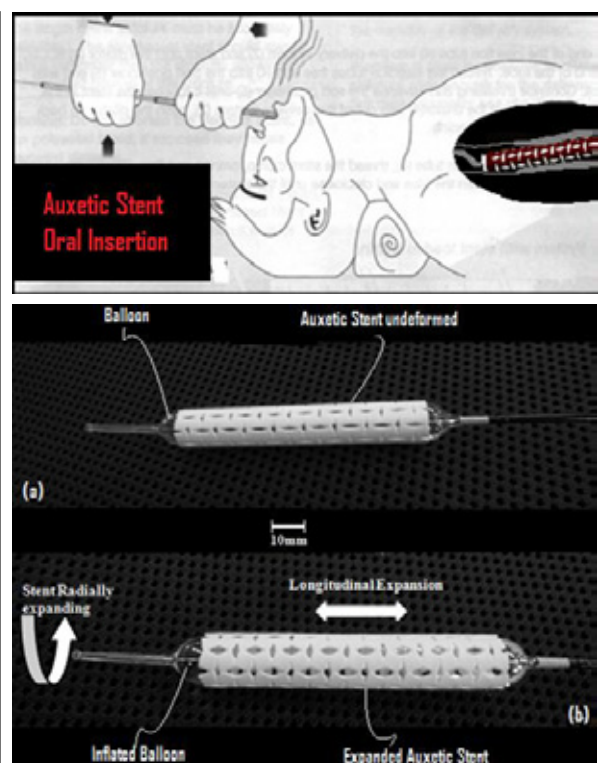
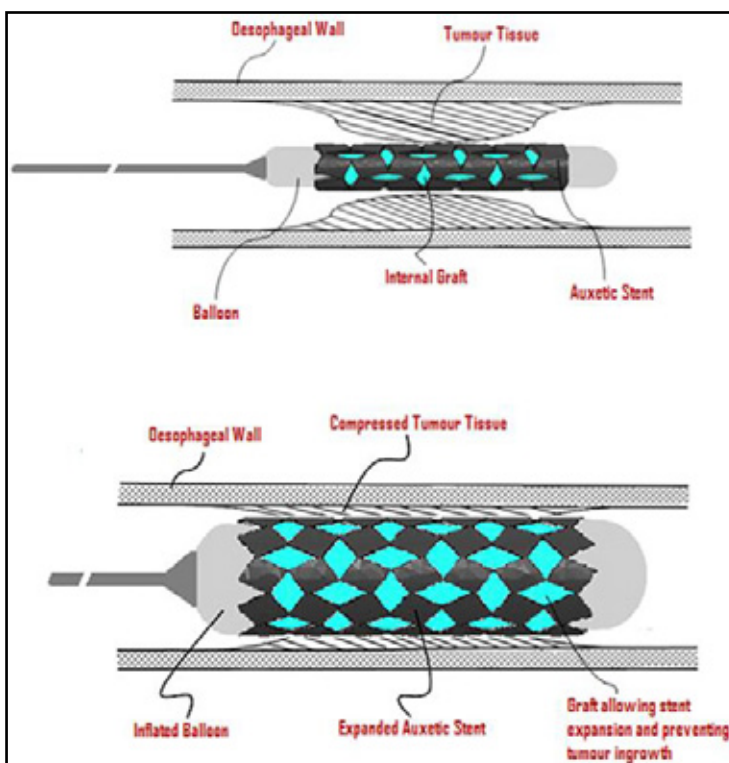
Dr Murtaza Najabat Ali

Dr Murtaza's project on Oesophageal Cancer treatment gets approved

The cancer of the oesophagus is the ninth most common malignancy in the world, and ranks the sixth most frequent cause of death over the world. Oesophageal stents have been in use as a relatively better palliative method for the patients suffering from advanced stage tumour and also for the relief of Dysphagia. The Dysphagia is an inability to swallow or eat and is a presenting symptom of oesophageal cancer which is indicative of incurability. In the past, conventional rigid plastic tubes required dilation and were associated with an increased complication rate.

The study carried out by Dr Murtaza Najabat Ali will focus on the design and development of an Auxetic stent-graft for the palliative treatment of oesophageal cancer, and will

also refine the Auxetic oesophageal stent-graft by not only providing palliation to the patient suffering from malignant oesophageal cancer having dysphagia, but will also improve the lifespan of the patient and control the surrounding tumour growth; dispense targeted local chemotherapy directly from the stent surface to the neighboring tumour tissue instead of painful systemic chemotherapy procedure; program stent made of biodegradable polyurethane in a way that it will degrade after some time in order to avoid late stent complications and painful re-intervention (stent removal) procedures; and will offer cost-effective palliative and (some degree of) curative treatment modality.



CMS on the go!

Running on the fast track of achievements, Campus Management System (CMS) is progressing well. Currently, CMS is nearing completion of its design phase and is well-poised to embark on its build phase in which finalized To-Be processes of design phase will be configured accordingly. Like all other phases some concrete decisions have been taken in the Executive Committee Meeting held on January 9, chaired

by Pro-Rector Academics, Dr Asif Raza. On the other hand, CMS Technical Team is being equipped with necessary trainings to drive CMS through all the upcoming phases. For this purpose, the team recently went to Lahore on one week contrive training. With a collective effort of all the team members and stakeholders, CMS is going to bring a wave of change that will be beneficial for all at NUST.



New SMME building inaugurated

The inauguration ceremony of new building of School of Mechanical & Manufacturing Engineering (SMME) was held on January 23. Rector NUST Engr Muhammad Asghar graced the occasion as the chief guest. Principals from all the schools, senior officials of NUST and faculty of SMME attended the ceremony. Director PMO, Engr Syed Nasir Zaidi initiated the ceremony by giving a brief presentation on the project. Thereafter, Rector NUST unveiled the plaque and inaugurated the new building. Principal SMME, Dr. Abdul Ghafoor invited the chief guest, Rector NUST, principals and senior officials to visit the new building where new classes, offices and laboratories have been established. The visit was followed by refreshments for all the worthy guests at the end.



“With faith, discipline and selfless devotion to duty, there is nothing worthwhile that you cannot achieve.”

Muhammad Ali Jinnah

HR development in full swing at NUST

Human Resource Development (HRD) is central to meeting diverse needs of any organizational/institutional setup. Therefore, the Human Resource Directorate of the University hinges upon introducing training pertinent to faculty and staff development. The objectives in so doing are achieved through the conduct of faculty development programmes, workshops and short courses both within the country and abroad.

Rehan Zahid, Lab Engineer at School of Mechanical and Manufacturing Engineering is proceeding to University of Malaya, Malaysia for PhD studies. Moreover, the HR Department has explored 95 Fully Funded Scholarships in the foreign reputed universi-

ties from several sources and has forwarded the details to different schools/ colleges/ centers for dissemination to faculty members under the Faculty Development Program. HR directorate also conducted an orientation training on January 23 for the NG staff of the University.



Continuing efforts to boost research bearing fruit

Focus on research and development (R&D) is vital for achieving academic excellence. With a view to achieving the NUST mission of becoming a comprehensive research-led university, many steps have been taken to promote and establish a healthy research culture at NUST. The month of January saw a visible increase in the University's research activities. The research publications in journals and presentations in conferences as well as collaborative research projects with industry have also increased. A total of 5 research papers were presented in various conferences, 12 were published in renowned journals and impact factor of published research papers was an impressive 25. Approved funding for the projects was Rs. 23 million.



Dr Riaz Ahmed, Director Research on January 13 also gave a detailed presentation on the research output and salient features of NUST Research Innovation and Commercialization (RIC) Policy to the faculty members of SCEE, SMME, SNS and C3A. A healthy discussion with a large number of participants ensued after the presentation.

C³A arranges Counseling Camp

Everyone has a sense of how to be happy or contented in their life. Eventually, it helps a person maintain his psychological and emotional health. At times, due to the busy life schedules and pressures of one's daily routine, one unintentionally restrains oneself from being in a state of happiness. Taking out time from the daily routine seems a hassle. Keeping in mind the notion that healthy minds have healthy bodies, Counseling and Career Advisory (C³A) organized a Counseling Camp for students, faculty and staff. One of the key objectives was to raise awareness about mental health and ways to reduce self-created stressors from our lives.

The Camp was inclusive of different activities such as Writing and Signature Analysis, On the Spot Counseling, and Career Counseling and Testing. Around 400 students registered themselves for different stalls. NUST faculty members and officers also participated in this activity and appreciated the



work of C³A for spreading awareness in NUST community. Pakistan Television gave coverage to C³A Counseling Camp in its bulletins.

NEWS IN PICTURE



► The closing ceremony of PN Year of Training, 2013 was held at Bahria Auditorium, Pakistan Navy Engineering College (PNEC) on January 16. Chief of the Naval Staff, Admiral Mohammad Asif Sandila NI (M) was chief guest of the ceremony. A large number of Senior Officers, CPOs/Sailors and awardees attended the event.



► The ceremony for award of Arm Badges to Appointment Holders at Pakistan Navy Engineering College (PNEC), NUST Karachi was held at PNS Jauhar on January 31. Merit certificates were awarded to high performers of Spring Semester 2014.



► The new batch of Mechanical Engineering joined PNEC, Karachi on January 17. Commandant delivered a welcome address to the new entrants and their parents/guardians at the College. A familiarization visit for newly joined students was also conducted followed by refreshments.



► The 67th annual conference of IAESTE was held at Quito, Ecuador from January 17 to 24. Commandant PNEC Commodore Zahid Iqbal SI (M) along with two others represented NUST.

02 / CONFERENCES/ WORKSHOPS/LECTURES

Second National Conference on Information Assurance – MCS

The Second National Conference on Information Assurance 2013 (NCIA-2013) was organized from 11 to 12 December, 2013 at Military College of Signals, NUST. Graced by the dignified General Officers of Pakistan Army, a huge number of renowned area experts as guest speakers and other distinguished guests, the conference served as an ideal platform for the participants to learn about the latest developments in the field of information security and information assurance.

The NCIA-2013 was the second in its series with the pioneering conference held in August 2010. As a follow-up, NCIA-2013 aimed at creating awareness and providing a forum for exchange of information among corporate executives, professionals and users of information technology from academia, industry, military and the government. The conference particularly focused on recent developments in information security technologies and best management practices along with their applications to achieve optimally secure IT infrastructure and organizational governance.



In his welcome address, Brig. Ali Farhan, Commandant MCS emphasized the need of information security in the information age and the contribution of MCS-NUST towards training its students to develop indigenous solutions to enhance nation's capacity building. Rector NUST Engr Muhammad Asghar, graced the opening ceremony as the chief guest. In his speech, he appreciated the role of MCS that had veritably emerged as an icon of excellence in the fields of Information Security, Telecommunications and Software Engineering.

Maj Gen (R). Ahmed Bilal, Chairman SUPARCO, was the closing ceremony chief guest. In his address, he commended the efforts of MCS for seizing this initiative to address the challenges posed by the information age.

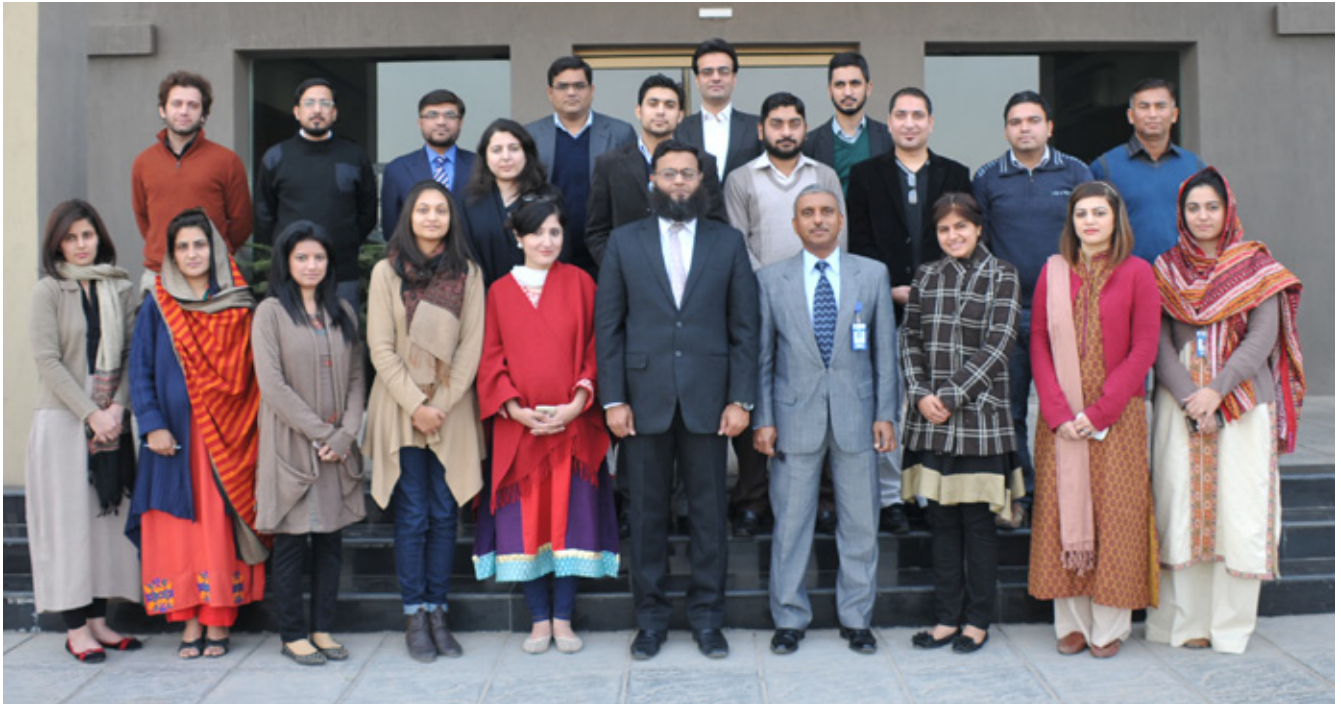
Dr. Solahuddin Bin Shamsuddin, Chief Technology Officer, Cyber Security Malaysia, was the conference keynote speaker. .

Inside NCIA-2103 20 high quality research papers were presented. The research papers were accepted out of a total of 77 submissions.



Five-day Preparatory Workshop for PMP Certification Exam - PDC

Professional Development Center (PDC), NUST, organized a five-day preparatory workshop for Project Management Professional Certification Exam of PMI USA from 20-24th January 2014 at Centre for Innovation and Entrepreneurship. The inaugural session began with a welcome address by the Principal NILE, followed by a brief history of project management and its applications. The five-day activity concentrated on a number of pertinent topics. The workshop concluded with the award of certificates to the participants from prestigious organizations such as British High Commission, NADRA, Punjab Sports Board, FWO, etc



Workshop on Safety Aspects - PNEC

A workshop on Situational Awareness, Risk Management and Accident Avoidance was arranged for service and civilian instructors on January 9 at Pakistan Navy Engineering College (PNEC), NUST. The workshop was conducted to apprise the Service and Civilian faculty regarding safety aspects through Pakistan Institute of Management (PIM). Commodore Baber Bilal SI (M), CSO to COMKAR awarded certificates to the participants.



Glasgow Professor at NUST

Department of Humanities and Basic Sciences (MCS) started a series of lectures focusing on assessment and evaluation for teaching and research in 2009. Professor Dr Norman Reid from University of Glasgow, Scotland, first visited MCS in 2009 and then in 2011 to cover the aforementioned subjects. This year, he was at MCS for two days, to deliver three lectures. Session one

on January 20, 2014 looked into "A scientific approach to teaching & learning at Undergraduate level with special focus on assessment & evaluation." The lecture was specifically designed for faculty members and lab engineers. While, session two on the same day titled "How to conduct & supervise research at Postgraduate level based on Quality Assurance." The session was

attended by PG students and faculty members of the College.

Meanwhile, Professional Development Centre also invited the esteemed professor to deliver lectures on the aforementioned topics at the main campus of the University. A large number of faculty and students attended the sessions. Later, Dr Asif Raza distributed certificates among the participants.



Prof. Sally Benson conducts seminar on Net Energy Analysis of Renewable Energy Systems

Prof. Sally M. Benson, Director of Global Climate & Energy Project (GCEP) at Stanford University, conducted a Seminar on Net Energy Analysis of Renewable Energy Systems on 24 January at the seminar hall of School of Chemical and Materials Engineering. Centre for Energy Systems organized the event.



Theme of her lecture was Net Energy Analysis, the basic idea that takes energy to make, operate and dispose/recycle the devices/systems needed to produce energy over life cycle. Her point of view is for a device/system to be useful to the global energy system: Energy output should be maximized with respect to the total energy inputs.

Lecture by Prof. Sally Benson was well attended and well received by NUST faculty, students, interestingly overwhelming presence of industrial experts, and leading local organizations' personnel. Later on, the guest speaker was presented with NUST souvenir to remind her of the short visit to NUST.

Rector addresses Amcolians

Rector NUST Engr Muhammad Asghar visited Army Medical College on January 22. In his address to the 38th MBBS and 16th BDS courses of AM College, the Rector NUST covered a wide range of aspects with the most fundamental being the scenario of educational behaviour in the recent years and the standards of certain institutions, along with military based educational institutions which were introduced with the motive of an organized and sound deliverance of professional awareness and this was the initiative that gave rise to what is now NUST. Rector NUST appreciated the role of Army Medical College in promoting an inspiring image for the reputation of the university among the globally renowned institutions. Principal AM College Major General Salman Ali, senior faculty of the College and some directors from NUST HQ were also present at the occasion.

Workshop on Constructing MCQs

Workshop on Constructing MCQs: one best type was held on November 9 at Army Medical College (AMC). Brig Irfan Shukar SI (M) conducted the workshop. Other than Principal AM College, Maj. Gen Salman Ali, all the basic sciences and clinical faculty attended the sessions. Department of Medical Education organized the workshop as a part of the faculty development. Workshop sessions included interactive sessions on the case-based learning (CBL), a pedagogical method, which is defined in a number of ways depending on the discipline and type of 'case' employed. In health professional education, learning activities are commonly based on patient cases. The facilitator outlined the integration of the basic, social and clinical sciences in relation to the case with clinical presentations and conditions (including health and ill-health). Student learning was, therefore, associated with real-life situations. The faculty were given different tasks to compare the PBL and CBL methodologies during the discussion.

Integrated faculty development programme – AM College



Army Medical College and Armed Forces Postgraduate Medical Institute have started Integrated Faculty Development Programme under the auspices of GHQ Medical Department from January 2014. First workshop on “Group dynamics and conception in teaching and learning” was conducted by Brig. Irfan Shukar SI(M) and Brig. Rizwan Hashimon January 25 at Army

Medical College conference room. All the basic sciences and clinical faculty along with Commandant AFIC, Major General Imran Majeed, Commandant AFGMI Major General Viqar Ahmad Khan and Principal AM College Major General Salman Ali HI(M) attended the workshop and distributed certificates among the participants. The arrangements were planned and carried out by

the department of medical education AM College as a part of the faculty development.

The workshop sessions included interactive sessions in small group discussions. The activity was beneficial for all faculty members involved in undergraduate students and resident’s teaching and learning.



MCS faculty attends International Conference on Education

Dr Muhammad Hanif, a faculty member of Military College of Signals (MCS), NUST attended “3rd International Conference on Education: Practices and Challenges, on January 6 and 7 in Lahore. The conference was organized by University of Education, Lahore with financial support of HEC. A large number of faculty members and researchers in the field of education participated in the conference and presented their research works with special focus on teacher education. Prof Dr Norman Reid, from University of Glasgow delivered his keynote lecture. Among others were delegates from Australia, Turkey and Bangladesh.



Workshop on Fracture Management with Saw Bones

The second workshop on “Fracture Management with Saw Bones” was held on January 18 and 19 at the Army Medical College (AMC), Rawalpindi. The orthopedics department gave medical students of final year MBBS a crisp overview of fracture management. Comprised of lectures, videos and practical sessions, the workshop spanned over the weekend. The zeal of the medical students as well as the teaching faculty was evident from the fact that both were more

than happy to dedicate their much awaited weekend to this educational activity. It was an ideal opportunity to look at the Anatomic Locking Plating System for different fractures. Maj Gen Salman Ali HI (M), Principal AM College graced the concluding session as chief guest. He distributed certificates among the students and also encouraged them by appreciating their desire to learn.



Seminar on Microwave Device Modeling, Electromagnetic Fields Simulations - CAE

The EM and Microwave group of the Avionics Engineering Department at College of Aeronautical Engineering (CAE), organized a seminar on “Microwave Device Modeling and Electromagnetic Fields Simulations.” The aim of this seminar was to emphasize on the importance of correct device modeling through state-of-the-art EM simulation

tools available today for an improved microwave system design and fabrication. The seminar speakers were prominent microwave professionals from academia (NUST constituent colleges like CAE and SEECs) and Industry (like Air Weapons Complex). Air Cdre (R) Asim Adnan, Dy DG Radar and Communication System, AWC was the chief guest

for the ceremony and Commandant College of Aeronautical Engineering, Air Cdre Professor Dr. Abdul Munem Khan chaired the sessions. During his closing remarks, the Commandant acknowledged the importance of simulation tools as an indispensable part of the engineering system design process particularly microwave system design.

Workshop on Surgical Skills at AM College

With the beginning of the New Year, Army Medical College has introduced surgical workshops for final year medical students. This pristine series of workshops is aimed at familiarizing the medical students with the surgical procedures that they will be expected to perform right from the onset of their careers as house officers. It also introduces them to the common procedures being performed at the orthopedics department. This initiative was first brought to life on January 4 when a group of three sub batches of 34th MBBS attended the first workshop in the series. The workshop was held at the newly established Skills Department in Army Medical College and faculty from CMH Rawalpindi and MH Rawalpindi actively participated in this venture. The paraphernalia was provided by AFGMI and AM College administration did an exceptional job of providing a comfortable environment for all attendees.



Short Course on Condition-based Maintenance - CAE

A short course on Condition-based Mechanics (CBM) was held at CAE from 9 to 13 December, 2013. Eleven students from various PAF units participated in this course. Faculty members of CAE delivered lectures on various modules of the course including study of failure mechanisms in different types of systems, fault diagnostics methodologies, failure prognostics techniques, and case studies. The course concluded with certificate award ceremony on 13 December, 2013, in which, Dean CAE Air Commodore Dr Jahangir Khan Kayani, awarded certificates to course participants.



CAE student's paper graded 2nd best at NCIA-2013

Flying Officer Fahad Malik, an undergraduate student of 75th Engineering Course, College of Aeronautical Engineering, presented his work on "GSM Downlink Protocol Analysis and Decoding Using Open-Source Hardware and Software" at IEEE 2nd National Conference on Information Assurance held at Military College of Signals, Rawalpindi. His paper was adjudged as second best out of the work produced either by graduate students or industry experts. His supervisor was Wing Commander Dr Jehanzeb Burki who is a faculty member in Avionics Department of College of Aeronautical Engineering.

"It is never too late to be what you might have been."

George Eliot

03 / VISITS

Chairman HIT

Chairman HIT, Lt. Gen Syed Wajid Hussain visited National University of Sciences and Technology on January 16. After meeting the Rector in his office, the worthy guest was given a detailed briefing on NUST. The Chairman HIT was impressed by the progress shown by the University in a short span of time and praised the administration and faculty for their devotion and hard work. Later, the honourable guest was conducted to School of Mechanical and Manufacturing Engineering, and School of Chemical and Materials Engineering.



Vice Rector Eastern Mediterranean University

Vice Rector Eastern Mediterranean University (EMU), Turkey, Prof. Dr. Majid Hashemipour visited NUST on 22nd January, 2014. The guest met with Rector NUST Engineer Muhammad Asghar and discussed matters of mutual interest. During the discussion both the sides agreed to establish close collaboration between NUST & EMU in the areas of faculty & student exchange, fellowships and joint research. Later, the guest visited NUST School of Electrical Engineering & Computer Science (SEECs) and NUST School of Mechanical & Manufacturing Engineering (SMME), where they were conducted to various state-of-the-art labs.



Sri Lanka Navy Delegation

Rear Admiral MUKV Bandara of Sri Lanka Navy (SLN) along with two members visited Pakistan Navy Engineering College (PNEC), Karachi on January 20 to discuss training issues of SLN students. A detailed presentation was given to the delegation in Conference Room. Deans, Directors and Registrar attended the same. After presentation, delegation took round of the college area. Commandant PNEC presented souvenirs to the delegation as a memento of their visit to PNEC. A working lunch was also arranged for the delegation.



PEC team

Pakistan Engineering Council (PEC) re-accreditation team visited Pakistan Navy Engineering College (PNEC), NUST Karachi on January 27 for inspection and changing of scope for BE Electrical Engineering Program of NUST-PNEC. A presentation was given by Electrical Engineering Department. PEC team also visited labs and library of the college.



Delegation from OJEI

Feroz Khan, Chief Executive Officer, Omar Jibran Engineering (Pvt.) Ltd visited School of Mechanical and Manufacturing Engineering (SMME), NUST on January 15. Feroz Khan, accompanied by Vice Principal SMME, Engr M. Sohail and DD MRC (Manufacturing Resource Centre), Engr. Naveed Hassan, visited all the labs and the new building of SMME. He was briefed on the research work and various projects that are underway at the school.

Omar Jibran Engineering Industries Ltd Pakistan is a well-known OEM vendor for major automobiles like Toyota, Honda and Suzuki in Pakistan for the last 18 years. OJ Engineering Industries Ltd. consists of a team of professionals having their core strength in Computer-Aided Designing, Computer-Aided Machining and Computer-Aided Engineering (CAD/CAM/CAE).

PIF delegation

Pakistan Innovation Foundation (PIF) delegation comprising three members visited Pakistan Navy Engineering College (PNEC), Karachi on January 24. The visit was aimed at apprising students about the Toyota Manufacturing Innovation Challenge 2013-2014. The event was sponsored by Toyota and Pakistan Innovation Foundation (PIF).



“Coming together is a beginning; keeping together is progress; working together is success.”

Henry Ford

‘Catch the Moment’ with Mushahid Hussain



NUST. Without further ado, the man whom everybody was waiting for was called on to take his position on stage to talk about Pakistan’s Past, Present and Future – its failures and successes. Mushahid Hussain started his talk by expressing his appreciation for the eminent educational institution, NUST. As the interest of the audience grew more in the talk, he explained his interest in the field of education; shed light on the

pre-independence events starting from the important Lucknow Pact made in 1937; and talked of the impacts of the changes expected in the years to come. After the guest’s thought-provoking speech, a question-and-answer session ensued. Later, Rector NUST Engr. Muhammad Asghar expressed his gratitude to the esteemed guest for his precious time and motivational discourse.

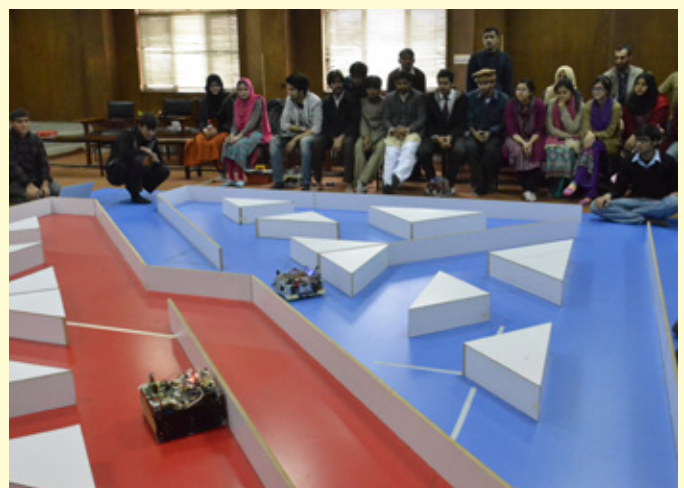
On the first day of the New Year, NUST Bazm-e-Pakistan arranged a session with Mushahid Hussain Syed, a journalist, a political scientist and a geo-strategist, to inspire the youth with his learned talk and to relive the era of Quaid-e-Azam. The audience gave a standing ovation to the veteran politician as soon as he entered the SCEE auditorium. The session started with the recitation from the Holy Quran. President NBPK, Abdul Hanan shared his emotions about Quaid-e-Azam, and also conveyed his extreme gratitude to the guest for his valuable time he spared for the faculty and students at



Wall Tracking Robot Competition - E&ME College

The Wall Tracking Robot Competition was held in the Department of Mechatronics Engineering at College of E&ME, Rawalpindi on January 22. A number of teams comprising undergraduate students from the Mechatronics Department participated in the competition. The objective of the competition was to design and fabricate a robot capable of traversing a path in a complex maze in the small-

est amount of time. Three minutes were allotted to each team for achieving the objective. The top 8 teams qualified for the final round. An overwhelming number of students and faculty turned up to witness the competition. Commandant College of E&ME, Brig Jamil Sarwar Malik, who was the chief guest on the occasion, gave away the prizes to the winning teams.



Sophomores welcome newbies-SMME

The freshmen of School of Mechanical and Manufacturing Engineering (SMME) received a traditional welcome party on January 3 from their seniors. The sophomores had outdone themselves in the arrangements for the evening. The program included many performances by the students including short dramas, football free styling, dances, songs and stand-up comedy. The freshmen, excited as they were for their welcome, also pitched in their part with a few singing performances and enthralled the audience. The audi-

ence, clad in the evening's thematic attire, enjoyed each and every minute of the evening. The Principal of SMME, Dr Abdul Ghafoor, commended the student's efforts and emphasized the need of such activities in the overall grooming of students. Addressing the freshmen, he stressed upon the importance of continuous hard work, honesty and integrity that they must inculcate in themselves. The party ended with a sumptuous dinner hosted for the newcomers.



Annual Bilingual Declamation Contest- PNEC

Defence Authority College for Women organized the 21st Annual Bilingual Declamation Contest 2014 on January 28. Eighteen teams from all over Karachi participated in the event. S/Lt Noman Majeed PN representing Pakistan Navy Engineering College (PNEC), NUST Karachi won 2nd prize in English Category while Talha Saleem won 2nd prize in Urdu Category.



MCS celebrates Quaid Day

Military College of Signals (MCS) welcomed the New Year by paying homage to the Father of Nation, Muhammad Ali Jinnah. A special seminar was arranged by the MCS Literary Society on January 1, titled Jinnah and Pakistan – Role of Students and Youth. The guest speaker at the occasion was Prof Dr Riaz Amad (TI), Aizaz-e-Fazeelat, who is presently the Director of National Institute of Culture and Historic Research, and Director Quaid Chair at Quaid-e-Azam University, Islamabad. He has authored 41 books and is an active member of 29 academic bodies. A large number of undergraduate students and faculty members of the college attended the lecture. At the end of the inspiring session, CI (E) Brig Dr Fahim Arif presented the guest speaker with College souvenir. Dr Riaz Ahmad presented his book to CI (E). In his closing remarks, Dean MCS, Brig Dr Ashraf Masood thanked the guest speaker and said that the spirit of the New Year could not have been better celebrated than reminding ourselves of the great principles of Quaid-e-Azam Muhammad Ali Jinnah.



Students and Faculty of all the campuses of NUST are requested to send their Essays, Poems, Caricatures, Short Stories for inclusion in the forthcoming issue of the magazine

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Intra NUST Squash Championship - CAE

NUST Sports Branch organized Intra NUST Squash Championship from 29 Nov to 1 Dec, 2013. College of Aeronautical Engineering, Risalpur, hosted

the competition. Teams that took part in the event included Islamabad Campus, AM College, MCS, E&ME, MCE and CAE. After thrilling contests, EME team

managed to clinch the trophy. Air Cdre Abdul Munem Khan, Commandant, CAE was the chief guest. He presented trophy to the winning team.



“The best teamwork comes from men who are working independently toward one goal in unison.”

James Cash Penney

05 / Community Service

NCSC members attend National Workshop on Safe Blood Transfusion

Faculty Sponsor NUST Community Service Club Dr. Irtiza and members of the club attended the national workshop on Safe blood Transfusion on January 22, 2014. The workshop was organized by Safe Blood Transfusion Program in collaboration with International Society of Blood Transfusion. The workshop focused on discussing the national need of blood, the safety issues involved, and the steps to be taken to re-

solve the problems. Representatives from different blood banks and organizations were invited who presented the work done by their organization. The establishment of Club 25 and Islamabad Blood Donor Organization network was announced with President NCSC Rabia Anwar being made the General Secretary of Club 25.



PNEC students mingle with special children

Students of final semester of Pakistan Navy Engineering College (PNEC), NUST Karachi visited Special Children School, PNS KARSAZ along with faculty members on January 31 as part of their community service. Commandant PNEC also accompanied the students. Students were apprised of facilities at the school. Later they visited the classes and interacted with special children. Commandant and students also distributed gifts among the special children of the school.



SOS children have something to cheer about!

The students of Department of Electrical Engineering, College of EME went on a trip to spend some time with the heart-warming souls of SOS Children's Village, Islamabad on 20th December, 2013. The activity was planned primarily as a part of the Community Service Course for the Degree 32-EE students but the students from other courses also took part in it enthusiastically.

The exuberant children warmly welcomed their guests. The administration of the SOS Children's Village had arranged

a short presentation to shed light on their commendable services for the less fortunate children. Shortly afterwards, the students and the children indulged in different playful activities including football, cricket, badminton, face painting and drawing. The environment quickly filled with an aura of joy, festivity and optimism, with the sounds of laughter encompassing the whole area. Distributing various eatables and gifts among the children further provided a stimulus for joy and cheer.



NCSC is now the largest club of NUST

NUST Community Service Club held the 'General Membership Drive' in December which received a phenomenal response- resulting in making the club the largest in terms of number of associated students. The club has 3000 general members and engages more than a thousand more in the 'Community Service Course' - a 2 credit hour course offered for the final year students. NCSC

held more than 50 events in 2013 making it one of the most active clubs of NUST. Various teams including Edvolution, TABA, character building and senior citizen rights are also working under the club. NCSC aims to engage maximum students in activities related to community service in order to develop a sense of active citizenry and compassion among them.

"No act of kindness, no matter how small, is ever wasted." - Aesop

Dialogue Session on Gender and education in RAHA Programme

Members of NUST Community Service Club participated in “Dialogue Session on Gender and Education in Refugee Affected and Hosting Area Program” organized by UNHCR in collaboration with UNESCO & RAHA. Pakistan ranks no. 1 in the world in terms of hosting the number of refugees across the country. The displaced people face a number of problems including health and education. The RAHA project by UNHCR focuses on solving some of these issues, and spreading awareness in the affected communities. Among others, the session was also attended by DG UNESCO Pakistan and UNESCO Head for Asia.



Rendezvous with Abdus Sattar Edhi

President and Press Secretary NCSC Rabia Anwar and Nida ul Fatima met with Abdus Sattar Edhi And Bilquise Edhi in Karachi. Abdus Sattar Edhi is the most prominent philanthropist of the country running the largest welfare organization in Pakistan: The Edhi Foundation. Edhi Foundation is the most active non-governmental organization in Pakistan and has rescued over 20,000 abandoned infants, rehabilitated over 50,000 orphans and has trained over 40,000 nurses since it was created. The foundation has over three hundred and thirty welfare centres in rural and urban Pakistan which serve as rehabilitation homes, shelters for abandoned women and children and clinics for the mentally handicapped and food kitchens. The students were joined by the members of Community Service Club of PNEC and Mr Edhi told them about

the motivation, drive and struggles faced by him and his wife during the course of establishing and maintaining the Edhi Foundation. He also told about the set up with which the organization currently works and the need to do philanthropic work in the country.



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